

# ALCUDIA® LDPE PE-063/A

Low Density Polyethylene  
REPSOL

Message:

ALCUDIA® PE063/A is a low density polyethylene grade, produced by high pressure autoclave technology, suitable for blown or cast film applications. This material offers easy processability into thin films with good balance of slip, mechanical and optical properties. It contains slip and antiblock additives.

TYPICAL APPLICATIONS

Film for automated packaging.  
High slip thin film.  
Recommended melt temperature range from 140 to 160°C. Processing conditions should be optimised for each production line.

General Information			
Additive	Anti-caking agent		
	slip agent		
Features	smoothness		
	Optical		
	Anti-caking property		
	Workability, good		
	Compliance of Food Exposure		
Uses	Packaging		
	Films		
	cast film		
Agency Ratings	European food contact, not rated		
Processing Method	Blow film		
	cast film		
Physical	Nominal Value	Unit	Test Method
Density (23°C)	0.920	g/cm <sup>3</sup>	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	4.0	g/10 min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Coefficient of Friction (vs. Itself - Dynamic, Blown Film)	0.10		ISO 8295
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	30	µm	
Tensile Stress			ISO 527-3
MD: Yield, 30 µm, blown film	10.0	MPa	ISO 527-3
TD: Yield, 30 µm, blown film	10.0	MPa	ISO 527-3
MD: Broken, 30 µm, blown film	23.0	MPa	ISO 527-3

TD: Broken, 30 µm, blown film	20.0	MPa	ISO 527-3
Tensile Elongation			ISO 527-3
MD: Broken, 30 µm, blown film	200	%	ISO 527-3
TD: Broken, 30 µm, blown film	600	%	ISO 527-3
Dart Drop Impact (30 µm, Blown Film)	70	g	ISO 7765-1
Elmendorf Tear Strength			ISO 6383-2
MD: 30 µm, blown film	1.5	N	ISO 6383-2
TD: 30 µm, blown film	0.60	N	ISO 6383-2
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	107	°C	ISO 306/A
Optical	Nominal Value	Unit	Test Method
Gloss (45°, 30.0 µm, Blown Film)	60		ASTM D2457
Haze (30.0 µm, Blown Film)	8.0	%	ASTM D1003
Additional Information			
Data taken from 30 µm thickness film, blow up ratio 2.25:1, frost line height 40 cm.			
Extrusion	Nominal Value	Unit	
Melt Temperature	140 - 160	°C	

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#### Recommended distributors for this material

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